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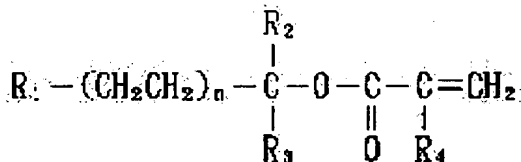
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(54) POLYETHYLENE MACROMONOMER AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To produce, in a high yield, a new high-purity polyethylene macromonomer which has a terminal (meth)acryloyl group and can be copolymerized with another vinyl monomer to give a comb-type graft polymer suitable as a polymer blend compatibilizer, a surface modifier, etc.



CONSTITUTION: Ethylene is subjected to living polymn. using a 1-6C linear or branched alkyllithium/tert. diamine initiator, reacted with a specific carbonyl compd. or oxidized with oxygen, and reacted with a (meth)acrylic acid halide to give a polyethylene macromonomer of the formula (wherein R1 is a 1-6C linear or branched satd. hydrocarbon group; R2 and R3 are each H or a 1-18C aliph. or

arom. hydrocarbon group provided R1, R2, and R3 are the same or different from each other; R4 is H or methyl; and n is an integer of 10-1,000).

LEGAL STATUS

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